The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A manufacturing method of a semiconductor device, comprising the steps of:

selectively injecting impurities into a semiconductor substrate to form an impurity region;

processing a laser beam having a fundamental wave into a long beam on a surface of the impurity region; and

moving the surface of the impurity region relatively to the long beam to scan the laser beam to activate the impurity region,

wherein the laser beam having a fundamental wave is oscillated with a pulse width of 1 femtosecond or more and 10 picoseconds or less.

2. (Currently Amended) A manufacturing method of a semiconductor device, comprising the steps of:

forming a gate insulating film over a semiconductor layer of an SOI substrate; forming a gate electrode over the gate insulating film;

selectively injecting impurities into the semiconductor layer of the SOI substrate to form an impurity region;

processing a laser beam having a fundamental wave into a long beam on a surface of the impurity region; and

moving the surface of the impurity region relatively to the long beam to scan the laser beam to activate the impurity region,

wherein the laser beam having a fundamental wave is oscillated with a pulse width of 1 femtosecond or more and 10 picoseconds or less.

- 3. (Original) The manufacturing method of a semiconductor device according to claim 1 or 2, wherein the impurity region is source and drain regions of a field effect transistor.
- 4. (Original) The manufacturing method of a semiconductor device according to claim 1 or 2, wherein the impurity region is an extension region of a field effect transistor.

## 5. (Canceled)

- 6. (Previously Presented) The manufacturing method of a semiconductor device according to claim 1 or 2, wherein the laser beam having a fundamental wave is emitted from one kind of lasers in which one or more of Nd, Yb, Cr, Ti, Ho and Er, is/are added as a dopant into a crystal of Sapphire, YAG, ceramics YAG, ceramics Y<sub>2</sub>O<sub>3</sub>, KGW, KYW, Mg<sub>2</sub>SiO<sub>4</sub>, YLF, YVO<sub>4</sub>, or GdVO<sub>4</sub>.
- 7. (Previously Presented) The manufacturing method of a semiconductor device according to claim 1 or 2, wherein the laser beam is pulsed laser light with a repetition rate of 10MHz or more.

## 8.-10. (Canceled)

- 11. (New) The manufacturing method of a semiconductor device according to claim 1, wherein a peak output power of the laser beam is 1GW/cm<sup>2</sup> to 1TW/cm<sup>2</sup>.
- 12. (New) The manufacturing method of a semiconductor device according to claim 2, wherein a peak output power of the laser beam is 1GW/cm<sup>2</sup> to 1TW/cm<sup>2</sup>.

- 13. (New) The manufacturing method of a semiconductor device according to claim 1, wherein a wavelength band of the fundamental wave is from red ray to near-infrared ray.
- 14. (New) The manufacturing method of a semiconductor device according to claim 2, wherein a wavelength band of the fundamental wave is from red ray to near-infrared ray.